

Applicant: yoshihide MATSUO
Application Serial No.: 10/797,360-
260

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) ~~A novel~~ An isolated morphogenic and growth accelerating chemical substance 1 having the following physicochemical properties:

(i) color of substance: colorless;

(ii) molecular weight: 457;

(iii) mass spectrometry: FABMS: m/z 456 $[M-H]^+$ (Fig. 1); and

(iv) nuclear magnetic resonance signal:

1) 1H -NMR(D_2O -20 mM Na_2HPO_4 (pH 9), 750 MHz): (Fig. 2)

δ ppm 0.818 (3H, s), 0.837 (3H, s), 0.882 (3H, s), 0.960 (1H, m), 1.058 (1H, m), 1.167 (1H, m), 1.326 (3H, s), 1.37 (1H, m), 1.38 (1H, m), 1.40 (1H, m), 1.58 (1H, m), 1.61 (2H, m), 1.52 (1H, br d, $J = 13$ Hz), 1.76 (1H, br d, $J = 14$ Hz), 2.024 (1H, m), 2.181 (1H, dd, $J = 4, 14$ Hz), 2.291 (1H, dd, $J = 14, 16.5$ Hz), 7.698 (1H, d, $J = 7.5$ Hz), 7.845 (1H, d, $J = 7.5$ Hz); and

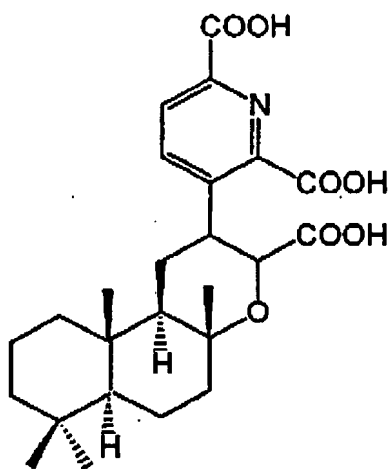
2) ^{13}C -NMR(D_2O -20 mM Na_2HPO_4 (pH 9), 125 MHz): (Fig. 3)

δ ppm 15.236 (q), 19.037 (t), 20.287 (t), 20.955 (q), 21.835 (q), 25.987 (t), 33.381 (s), 33.636 (q), 37.308 (s), 39.590 (t), 41.199 (t), 42.346 (t), 52.769 (d), 56.381 (d), 79.096 (s), 114.965 (s), 124.399 (d), 139.004 (s), 141.232 (d), 150.282 (s), 152.656 (s), 172.081 (s), 173.538 (s), 174.661 (s).

Applicant: ~~Yoshihide~~ MATSUO
Application Serial No.: 10/797,360
260

2. (currently amended) The ~~novel~~-chemical substance 1 according to claim 1, which is obtainable from the YM-2-23 strain (FERM BP-8417).

3. (currently amended) The ~~novel~~-chemical substance 1 according to claim 1, which is represented by the following formula:

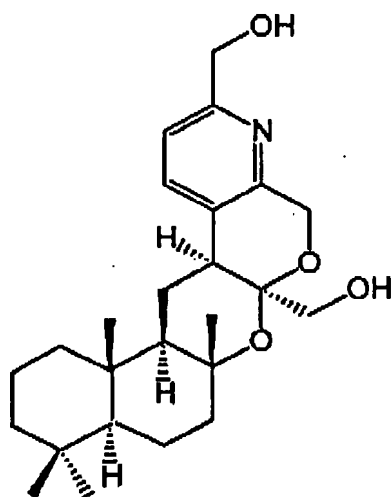


4. (currently amended) The ~~novel~~-chemical substance 1 according to claim 1, which has the molecular formula: C₂₅H₃₁NO₇.

5. (canceled)

6. (withdrawn) A compound represented by the following formula:

Applicant: Yoshihide MATSUO
Application Serial No.: 10/797,860-
240



7. (withdrawn - currently amended) A process for producing a ~~new~~ chemical substance 1, wherein microorganisms capable of producing the ~~new~~ chemical substance 1 according to claim 1 are cultured in medium, the ~~new~~-chemical substance 1 is generated and accumulated in the cultures, and the generated and accumulated novel chemical substance 1 is recovered.
8. (canceled)
9. (withdrawn) The production process according to claim 7, wherein the microorganisms are YM-2-23 strain (FERM BP-8417), or an analogous strain thereof.
10. (canceled)
11. (withdrawn - currently amended) Culture medium for algae comprising, as an active ingredient, the ~~new~~-chemical substance 1 according to claim 1.
12. (canceled)

Applicant: Yoshihide MATSUO
Application Serial No.: 10/797,360
240

13. (withdrawn - currently amended) A monomethylated, dimethylated, or trimethylated form of the ~~nevel~~-chemical substance 1 obtained by treating the ~~nevel~~-chemical substance 1 according to claim 1 with trimethylsilyldiazomethane.

14. (withdrawn) A compound or a derivative thereof obtained by treating the trimethylated form according to claim 13 with sodium borohydride.